



STIC Search Report

EIC 3600

STIC Database Tracking Number: 142558

To: Trinh T Nguyen
Location: PK5 3B25
Art Unit : 3644
Thursday, January 13, 2005

Case Serial Number: 10/603134

From: Karen Lehman
Location: EIC 3600
PK5-Suite 804
Phone: 306-5783

karen.lehman@uspto.gov

Search Notes

show files;ds

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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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Set	Items	Description
S1	136438	BIVALV? OR MUSSEL? OR OYSTER? OR SCALLOP? OR CLAM OR CLAMS OR COCKLE?
S2	161329	OOCYTE?
S3	3281	EXOGENOUS??(4N) (ESTROGEN? OR AGONIST?)
S4	252174	(INCREAS? OR STIMULAT? OR ENHANC?) (3N) (OFFSPRING? OR SPAWN? OR GROWTH OR MATURAT? OR MEIOSIS)
S5	9637927	INCREAS? OR ENHANC? OR LARGER? OR GREATER?
S6	121099	HEAT(2N)SHOCK?
S7	2867	SPERM(3N)EXTRACT?
S8	0	S1 AND S2 AND S3 AND S4
S9	48	S1 AND S2 AND (ESTROGEN? OR AGONIST? OR S5 OR S6) AND S4
S10	29	RD (unique items)
S11	28	S10 NOT PD=>20020627
S12	0	T 9/7/ALL
S13	76	S1 AND S2 AND (ESTROGEN? OR AGONIST OR S6 OR S7)
S14	859	S1(10N)S2
S15	46	S14 AND (ESTROGEN? OR AGONIST OR S6 OR S7)
S16	34	RD (unique items)
S17	33	S16 NOT PD=>20020627

17/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0011120323 BIOSIS NO.: 199799754383

Characterization of serotonin receptor mediating intracellular calcium increase in meiosis-reinitiated oocytes of the bivalve *Ruditapes philippinarum* from central Japan

AUTHOR: Fong Peter P (Reprint); Deguchi Ryusaku; Kyojuka Keiichiro
AUTHOR ADDRESS: Dep. Biol., Gettysburg Coll., Gettysburg, PA 17325, USA**
USA

JOURNAL: Journal of Experimental Zoology 279 (1): p89-101 1997 1997

ISSN: 0022-104X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Characterization of serotonin receptor mediating intracellular calcium increase in meiosis-reinitiated oocytes of the bivalve *Ruditapes philippinarum* from central Japan

...ABSTRACT: Ca-2+)-i release. 5-HT, alpha,methyl-5-HT (a 5-HT-2 receptor agonist), and 8-OH-DPAT (5-HT1A) were the most potent agonists inducing a high percentage of oocytes to undergo GVBD. These three agents also significantly induced spawning in male **clams** . Stimulation of fura-2 injected **oocytes** by these compounds resulted in a large calcium transient peak seconds after **agonist** application, followed by one to several smaller transients. Maximum peak height, mean peak height, and...

17/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0010790697 BIOSIS NO.: 199799424757

Change in intracellular Ca-2+ is not involved in serotonin-induced meiosis reinitiation from the first prophase in oocytes of the marine bivalve *Crassostrea gigas*

AUTHOR: Kyojuka Keiichiro (Reprint); Deguchi Ryusaku; Yoshida Noriyuki;
Yamashita Masakane

AUTHOR ADDRESS: Asamushi Marine Biological Stn., Tohoku Univ., Asamushi,
Aomori, 039-35, Japan**Japan

JOURNAL: Developmental Biology 182 (1): p33-41 1997 1997

ISSN: 0012-1606

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...Ca-2+ is not involved in serotonin-induced meiosis reinitiation from the first prophase in oocytes of the marine bivalve *Crassostrea gigas*

ABSTRACT: In response to the neurohormone serotonin (5-hydroxytryptamine, 5-HT), prophase-arrested **oocytes** of the marine **bivalve** *Crassostrea gigas* (**oyster**) reinitiate meiosis, undergo germinal vesicle breakdown (GVBD), and are arrested again at metaphase I. We...

...characteristics of 5-HT receptors and the signal transduction pathway following 5-HT stimulation in **oyster oocytes** . Among 5-HT agonists tested, only alpha-methyl 5-HT, a 5-HT-2 **agonist** , induced GVBD, although it was 1000 times less sensitive than 5-HT. The rank order...

...from those reported for other mollusks, suggesting the presence of unique 5-HT receptors on **oyster oocytes**. Using the fluorescent Ca-2+ dyes fura2 and calcium green and the pH indicator 1...

...the occurrence of GVBD in response to 5-HT. Therefore, it is likely that in **oyster oocytes** the signal transduction pathways and intracellular effectors participating in 5-HT-induced meiosis reinitiation via...

17/3,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0010790689 BIOSIS NO.: 199799424749

Serotonergic mechanisms mediating spawning and oocyte maturation in the zebra mussel, Dreissena polymorpha

AUTHOR: Ram Jeffrey L (Reprint); Fong Peter P; Kyojuka Keiichiro

AUTHOR ADDRESS: Dep. Physiol., Wayne State Univ., Detroit, MI 48201, USA**
USA

JOURNAL: Invertebrate Reproduction and Development 30 (1-3): p29-37 1996
1996

ISSN: 0792-4259

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Abstract

LANGUAGE: English

Serotonergic mechanisms mediating spawning and oocyte maturation in the zebra mussel, Dreissena polymorpha

ABSTRACT: The zebra mussel, *Dreissena polymorpha*, is a freshwater biofouling **bivalve** unintentionally introduced in the 1980s into North America from Europe. **Oocyte** maturation (germinal vesicle breakdown, GVBD) and spawning of the zebra **mussel** can be triggered with serotonin (5-hydroxytryptamine, 5-HT). In pharmacological experiments to characterize-the...

...cyproheptadine had partial inhibitory effects; and methiothepin was a very effective antagonist. Metergoline had mixed **agonist** /antagonist properties. Ergotamine was the most effective activator of spawning in females. Compared to serotonergic...

...cyclic AMP. The Ca-2+ ionophore A23187 can trigger GVBD and polar body formation. Thus, **oocyte** maturation in zebra **mussels** may be initiated via serotonergic receptors simultaneously inhibiting adenylyl cyclase and activating Ca-2+ mechanisms.

17/3,K/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0010657293 BIOSIS NO.: 199799291353

Meiosis reinitiation in *Ruditapes philippinarum* (Mollusca): Involvement of L-calcium channels in the release of metaphase I block

AUTHOR: Moreau Marc (Reprint); Leclerc Catherine; Guerrier Pierre

AUTHOR ADDRESS: Cent. Biol. Dev. UMR 9925, Univ. Paul Sabatier, 118 route de Narbonne, F-31062 Toulouse Cedex, France**France

JOURNAL: Zygote 4 (2): p151-157 1996 1996

ISSN: 0967-1994

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: be fertilized or stimulated by excess KCl, in contrast to the situation found in other **bivalve** species such as *Barnea* and *Spisula*. However, these **oocytes** can be triggered to reinitiate meiosis following treatment by serotonin or several pharmacological agents (calcium...

...breakdown. Moreover we establish that: (1) the addition of 20 μ M S(-)-BayK8644, an **agonist** of L-type calcium channels, to metaphase-arrested oocytes releases them from metaphase block; (2...

17/3,K/5 (Item 5 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
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0010566800 BIOSIS NO.: 199699200860

Serotonergic ligands induce spawning but not oocyte maturation in the *Mactra chinensis* from central Japan

AUTHOR: Fong Peter P; Deguchi Ryusaku; Kyojima Keiichiro
AUTHOR ADDRESS: Asamushi Marine Biological Stn., Asamushi, Aomori 039-35, Japan**Japan
JOURNAL: Biological Bulletin (Woods Hole) 191 (1): p27-32 1996 1996
ISSN: 0006-3185
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: injected and externally applied serotonin (5-hydroxytryptamine, 5-HT). The vertebrate 5-HT-2 receptor **agonist** alpha-methyl 5-HT and the selective 5HT-1A **agonist** 8-OH-DPAT were also effective at inducing spawning. However TFMPP (m-trifluoromethylphenylpiperazine, a vertebrate 5-HT-1 receptor **agonist**) and 1-methyl-chlorophenyl biguanide (a vertebrate 5-HT-3 **agonist**) were not effective spawning inducers. The 5-HT-induced spawning was blocked by mianserin (a...
...germinal vesicle breakdown (GVBD) in *Mactra* oocytes. Sperm induced GVBD in a high percentage of **oocytes**. This is the first report of a **bivalve** in which spawning, but not GVBD, can be induced by 5-HT. This result might...

17/3,K/6 (Item 6 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
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0009753699 BIOSIS NO.: 199598221532

Species-specific sperm attraction in the zebra mussel, *Dreissena polymorpha*, and the quagga mussel, *Dreissena bugensis*

AUTHOR: Miller Richard L (Reprint); Mojares Jon J; Ram Jeffrey L
AUTHOR ADDRESS: Dep. Biol., Temple Univ., Philadelphia, PA 19122, USA**USA
JOURNAL: Canadian Journal of Zoology 72 (10): p1764-1770 1994 1994
ISSN: 0008-4301
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The occurrence of species-specific agents that attract sperm to

spawned **oocytes** of zebra and quagga **mussels** might explain both the high fecundity of these species and their apparent inability to hybridize ...

- ...to induce release of sperm and oocytes, and ethanol extracts of aquarium water. Injection of **oocyte** extracts from both zebra (*Dreissena polymorpha*) and quagga (*Dreissena bugensis*) **mussels** elicited a significant increase in the density of actively motile conspecific sperm, usually within 10...
- ...obtained to whole-gonad acid extracts stored for 1 year or boiled. Although full-strength **extracts** attracted **sperm** of both species, serial half-dilution of the two extracts showed that a 100-fold...
- ...no effect on the kinematics of either species' sperm. This is the first demonstration of **sperm** attraction to egg **extracts** in a bivalve.

17/3,K/7 (Item 7 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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0009398193 BIOSIS NO.: 199497419478

In vivo and in vitro induction of germinal vesicle breakdown in a freshwater bivalve, the zebra mussel *Dreissena polymorpha* (Pallas)

AUTHOR: Fong Peter P (Reprint); Kyojuka Keiichiro; Abdelghani Haitham;
Hardege Jorg D; Ram Jeffrey L

AUTHOR ADDRESS: Biol. Dep., Gettysburg Coll., Gettysburg, PA 17325, USA**
USA

JOURNAL: Journal of Experimental Zoology 269 (5): p467-474 1994 1994

ISSN: 0022-104X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: **Oocyte** maturation and germinal vesicle breakdown (GVBD) was induced in zebra **mussel** (*Dreissena polymorpha*) **oocytes** by in vivo and in vitro application of serotonin (5-hydroxytryptamine, 5-HT), and in vitro application of 8-hydroxydipropylaminotetralin hydrobromide (8-OH-DPAT, a 5-HT-1A receptor **agonist**). **Oocytes** initiated GVBD approximately 30 minutes after exposure to 5-HT (10^{-3} M) at...

...ten minutes was required to trigger the maturation process, which terminates in spawning of fertilizable **oocytes** in nearly all **mussels**. But, with an exposure time of less than five minutes, spawning was reduced by application of 10^{-4} M methiothepin (a potent blocker of 5-HT-induced spawning in zebra **mussels**). Thus, the sequence of **oocyte** maturation events in zebra **mussels** was determined. **Oocytes** are arrested at the germinal vesicle stage (prophase 1) within the ovary 5-HT reinitiates...

...which are further arrested until fertilization. To our knowledge this is the first demonstration of **oocyte** maturation induction by serotonergic ligands in a freshwater **bivalve**.

17/3,K/8 (Item 8 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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0009170218 BIOSIS NO.: 199497191503

**Sperm nuclear transformations in cytoplasmic extracts from surf clam
(Spisula solidissima) oocytes**

AUTHOR: Longo Frank J (Reprint); Mathews Lori (Reprint); Palazzo Robert E
AUTHOR ADDRESS: Dep. Anatomy, Univ Iowa, Iowa City, IA 52252, USA**USA
JOURNAL: Developmental Biology 162 (1): p245-258 1994 1994
ISSN: 0012-1606
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

**Sperm nuclear transformations in cytoplasmic extracts from surf clam
(Spisula solidissima) oocytes**

ABSTRACT: Following their incorporation into **oocytes**, sperm nuclei (SN) of the surf **clam**, *Spisula solidissima*, undergo an initial expansion, followed by condensation and then a dramatic enlargement during...

...and female pronuclear development, respectively. To analyze possible changes occurring in SN at fertilization, surf **clam** **oocyte** extracts, prepared before and after parthenogenetic activation, were examined for their ability to affect SN...

...histone, and protamine. The presence (65 min extract) and absence (unactivated, 4- and 15-min **extracts**) of **sperm** nuclear envelope assembly in vitro is consistent with events in vivo, where such a structure...

17/3,K/9 (Item 9 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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0007937980 BIOSIS NO.: 199242040871

EFFECTS OF SURF CLAM OOCYTE EXTRACTS ON ISOLATED SPERM NUCLEI

AUTHOR: LONGO F J (Reprint); PALAZZO R E
AUTHOR ADDRESS: DEP ANATOMY, UNIV IOWA, IOWA CITY, IOWA 52242, USA**USA
JOURNAL: Journal of Cell Biology 115 (3 PART 2): p322A 1991
CONFERENCE/MEETING: ABSTRACTS OF PAPERS PRESENTED AT THE THIRTY-FIRST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR CELL BIOLOGY, BOSTON, MASSACHUSETTS, USA, DECEMBER 8-12, 1991. J CELL BIOL.
ISSN: 0021-9525
DOCUMENT TYPE: Meeting
RECORD TYPE: Citation
LANGUAGE: ENGLISH

EFFECTS OF SURF CLAM OOCYTE EXTRACTS ON ISOLATED SPERM NUCLEI

17/3,K/10 (Item 10 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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0003865900 BIOSIS NO.: 198375049843

MECHANISM OF SPERM OOCYTE INTERACTION DURING FERTILIZATION IN THE SURF CLAM SPISULA-SOLIDISSIMA

AUTHOR: TUMBOH-OERI A G (Reprint)
AUTHOR ADDRESS: POPUL COUNC, CENT BIOMED RES, 1230 YORK AVE, NEW YORK, NY 10021, USA**USA
JOURNAL: Biological Bulletin (Woods Hole) 162 (1): p124-134 1982
ISSN: 0006-3185

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

**MECHANISM OF SPERM OOCYTE INTERACTION DURING FERTILIZATION IN THE SURF
CLAM SPISULA-SOLIDISSIMA**

...ABSTRACT: when sperm were incubated with oocyte extract.
Detergent-treated Spisula oocytes incubated with Arbacia oocyte **extract**
did not undergo **sperm** -induced maturation. Oocyte surface membrane could
contain macromolecules that act as receptor(s) for sperm...

17/3,K/11 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

08463687 Genuine Article#: 288LD No. References: 38

**Title: Cilia-driven rotational behavior in gastropod (Physa elliptica)
embryos induced by serotonin and putative serotonin reuptake inhibitors
(SSRIs)**

Author(s): Uhler GC; Huminski PT; Les FT; Fong PP (REPRINT)
Corporate Source: GETTYSBURG COLL,DEPT BIOL/GETTYSBURG//PA/17325 (REPRINT);
GETTYSBURG COLL,DEPT BIOL/GETTYSBURG//PA/17325
Journal: JOURNAL OF EXPERIMENTAL ZOOLOGY, 2000, V286, N4 (MAR 1), P414-421
ISSN: 0022-104X Publication date: 20000301
Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK,
NY 10158-0012
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: dose-dependent increase in rotation from 10(-6) to 10(-4) M.
The 5-HT1A **agonist** 8-OH-DPAT produced a similar dose-dependent
increase in rotation. However, the 5-HT2 **agonist** alpha-CH3-serotonin
evoked a significant rotational response only at the highest
concentration of 10...

...Identifiers-- **MUSSEL** DREISSENA-POLYMORPHA; ZEBRA **MUSSEL** ; MEIOSIS
REINITIATION; **OOCYTE** MATURATION; EGG MASSES; SPHAERIUM MUSCULIUM;
HELISOMA-TRIVOLVIS; FLUOXETINE PROZAC; SURF **CLAM** ; RECEPTOR

17/3,K/12 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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07263136 Genuine Article#: 143KM No. References: 39

**Title: Mechanisms of calcium release and sequestration in eggs of
Chaetopterus pergamentaceus**

Author(s): Thomas TW; Eckberg WR (REPRINT) ; Dube F; Galione A
Corporate Source: HOWARD UNIV,DEPT BIOL/WASHINGTON//DC/20059 (REPRINT);
HOWARD UNIV,DEPT BIOL/WASHINGTON//DC/20059; UNIV MONTREAL,CHUM, CTR
RECH, DEPT OBSTET GYNECOL/MONTREAL/PQ/CANADA/; UNIV OXFORD,UNIV DEPT
PHARMACOL/OXFORD//ENGLAND/; MARINE BIOL LAB,/WOODS HOLE//MA/02543
Journal: CELL CALCIUM, 1998, V24, N4 (OCT), P285-292
ISSN: 0143-4160 Publication date: 19981000
Publisher: CHURCHILL LIVINGSTONE, JOURNAL PRODUCTION DEPT, ROBERT STEVENSON
HOUSE, 1-3 BAXTERS PLACE, LEITH WALK, EDINBURGH EH1 3AF, MIDLOTHIAN,
SCOTLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: releasing soluble protein into the egg upon sperm-egg fusion,

we also tested whether soluble **extracts** of Chaetopterus **sperm** could stimulate Ca²⁺ release in Chaetopterus egg homogenates. There was no Ca²⁺ release when the **sperm extract** was added to the homogenate; however, homogenates exposed to **sperm extract** became refractory to IP₃. Thus, Ca²⁺ release at fertilization in these oocytes occurs through IP₃...

...Identifiers--CYCLIC ADP-RIBOSE; SURF **CLAM OOCYTES** ; SEA-URCHIN EGGS; INOSITOL TRISPHOSPHATE; CA²⁺ RELEASE; RYANODINE RECEPTORS; PYRIDINE-NUCLEOTIDE; MEIOTIC MATURATION; FERTILIZATION; ACTIVATION

17/3,K/13 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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05162999 Genuine Article#: VE295 No. References: 26

Title: SEROTONERGIC LIGANDS INDUCE SPAWNING BUT NOT OOCYTE MATURATION IN THE BIVALVE MACTRA-CHINENSIS FROM CENTRAL JAPAN

Author(s): FONG PP; DEGUCHI R; KYOZUKA K

Corporate Source: ASAMUSHI MARINE BIOL STN/ASAMUSHI/AOMORI 03935/JAPAN/; GETTYSBURG COLL,DEPT BIOL/GETTYSBURG//PA/17325

Journal: BIOLOGICAL BULLETIN, 1996, V191, N1 (AUG), P27-32

ISSN: 0006-3185

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Title: SEROTONERGIC LIGANDS INDUCE SPAWNING BUT NOT OOCYTE MATURATION IN THE BIVALVE MACTRA-CHINENSIS FROM CENTRAL JAPAN

...Abstract: both injected and externally applied serotonin

(5-hydroxytryptamine, 5-HT), The vertebrate 5-HT₂ receptor **agonist** alpha-methyl 5-HT and the selective 5HT_{1A} **agonist** 8-OH-DPAT were also effective at inducing spawning, However TFM PP (m-trifluoromethylphenylpiperazine, a vertebrate 5-HT₁ receptor **agonist**) and 1-methyl-chlorophenyl biguanide (a vertebrate 5-HT₃ **agonist**) were not effective spawning inducers, The 5-HT-induced spawning was blocked by mianserin (a...

...germinal vesicle breakdown (GVBD) in Mactra oocytes, Sperm induced GVBD in a high percentage of **oocytes** , This is the first report of a **bivalve** in which spawning, but not GVBD, can be induced by 5-HT. This result might...

...Identifiers--INDUCED MEIOSIS REINITIATION; **MUSSEL**

DREISSENA-POLYORPHA; SURF **CLAM OOCYTES** ; SOUTHWEST HOKKAIDO;

RUDITAPES-PHILIPPINARUM; INTRACELLULAR CA²⁺; SPISULA **OOCYTES** ; FIRST PROPHASE; 5-HYDROXYTRYPTAMINE; TOMAKOMAI

17/3,K/14 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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05021445 Genuine Article#: VA019 No. References: 26

Title: CHARACTERIZATION OF SEROTONIN RECEPTOR MEDIATING PARTURITION IN FINGERNAIL CLAMS SPHAERIUM (MUSCULIUM) SPP FROM EASTERN NORTH-AMERICA

Author(s): FONG PP; WADE S; ROSTAFIN M

Corporate Source: GETTYSBURG COLL,DEPT BIOL/GETTYSBURG//PA/17325

Journal: JOURNAL OF EXPERIMENTAL ZOOLOGY, 1996, V275, N4 (JUL 1), P326-330

ISSN: 0022-104X

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: a potent inducer of parturition in both species. In addition, the selective vertebrate 5-HT₂ **agonist** alpha-methyl-5-HT

significantly induced parturition in both species. Other agents including the serotonin agonists TFMPP (a 5-HT1 **agonist**), 1-1-naphthylpiperazine (5-HT1), 8-OH-DPAT (5-HT1A), oxymetazoline (5-HT1A,1B,1D...

...Identifiers--MUSSEL DREISSENA-POLYMORPHA; PATINOPECTEN-YESSOENSIS; MEIOSIS REINITIATION; SPISULA-SOLIDISSIMA; SURF **CLAM** ; 5-HYDROXYTRYPTAMINE; INDUCTION; **OOCYTES**; STIMULATION; **SCALLOP**

17/3,K/15 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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04368351 Genuine Article#: RY609 No. References: 21

Title: USE OF BUSPIRONE FOR TREATMENT OF CEREBELLAR-ATAXIA - AN OPEN-LABEL STUDY

Author(s): LOU JS; GOLDFARB L; MCSHANE L; GATEV P; HALLETT M
Corporate Source: NINCDS,MED NEUROL BRANCH,HUMAN MOTOR CONTROL SECT,BLDG 36,RM 4D04/BETHESDA//MD/20892; NINCDS,MED NEUROL BRANCH,HUMAN MOTOR CONTROL SECT/BETHESDA//MD/20892; NINCDS,BIOMETRY & FIELD STUDIES BRANCH/BETHESDA//MD/20892

Journal: ARCHIVES OF NEUROLOGY, 1995, V52, N10 (OCT), P982-988

ISSN: 0003-9942

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: Objective: To evaluate the efficacy of buspirone hydrochloride, a serotonin (5-hydroxytryptamine(1A)) **agonist** , in treating patients with cerebellar ataxia.

Design: Open-label study in which 20 patients (14...

...Research Fronts: BEHAVIOR OF RATS; ANXIOLYTIC PROFILE; 5-HT1A RECEPTOR ACTIVATION; RAPHE NUCLEI)
93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)

17/3,K/16 (Item 6 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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04353028 Genuine Article#: RR507 No. References: 46

Title: COMPLEX EFFECTS OF AGE AND GENDER AN HYPOTHERMIC, ADRENOCORTICOTROPIC HORMONE AND CORTISOL RESPONSES TO IPSAPIRONE CHALLENGE IN NORMAL SUBJECTS

Author(s): GELFIN Y; LERER B; LESCH KP; GORFINE M; ALLOLIO B
Corporate Source: HEBREW UNIV JERUSALEM,HADASSAH MED CTR,DEPT PSYCHIAT,POB 12000/IL-91120 JERUSALEM//ISRAEL/; HEBREW UNIV JERUSALEM,HADASSAH MED CTR,DEPT PSYCHIAT/IL-91120 JERUSALEM//ISRAEL/; HEBREW UNIV JERUSALEM,HADASSAH MED SCH,DEPT PSYCHIAT/IL-91010 JERUSALEM//ISRAEL/; UNIV WURZBURG,DEPT PSYCHIAT/WURZBURG//GERMANY/; UNIV WURZBURG,DEPT MED,ENDOCRINE LAB/WURZBURG//GERMANY/

Journal: PSYCHOPHARMACOLOGY, 1995, V120, N3 (AUG), P356-364

ISSN: 0033-3158

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: The effects of a challenge dose of the 5-HT1A **agonist** , ipsapirone (0.3 mg per kg body weight), or placebo on body temperature and on...

Research Fronts: 93-0931 001 (ADOLESCENT SUICIDE; MANAGEMENT OF DEPRESSION; RISK FACTOR)

93-3111 001 (ZEBRA MUSSEL (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE;
SURF CLAM OOCYTES)
93-4682 001 (ELEVATED PLUS-MAZE TEST; BEHAVIOR OF RATS; ANXIOLYTIC
PROFILE; 5-HT1A RECEPTOR...

17/3,K/17 (Item 7 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

04262751 Genuine Article#: RR436 No. References: 41
**Title: EFFECTS OF SEROTONIN, RECEPTOR AGONISTS ON SKELETAL-MUSCLE
PREPARATIONS OF MALIGNANT HYPERTHERMIA-SUSCEPTIBLE PATIENTS**
Author(s): WAPPLER F; ROEWER N; KOCHLING A; SCHOLZ J; STEINFATH M;
RUMBERGER E; LOSCHER W; ESCH JSA
Corporate Source: UNIV HAMBURG, KRANKENHAUS EPPENDORF, ANASTHESIOLOGIE
ABT, MARTINISTR 52/D-20246 HAMBURG//GERMANY//; UNIV HAMBURG, KRANKENHAUS
EPPENDORF, VEGETAT PHYSIOLOGIE ABT/D-20246 HAMBURG//GERMANY//; HANNOVER SCH
VET MED, INST PHARMAKOLOGIE/W-3000 HANNOVER//GERMANY/
Journal: ANAESTHESIOLOGIE, 1995, V44, N8 (AUG), P538-544
ISSN: 0003-2417
Language: GERMAN Document Type: ARTICLE (Abstract Available)

...Abstract: MH in pigs. In this study the in vitro-effects of the 5-HT2
receptor agonist 1-(2,5-dimethoxy-4-iodophenyl)-2-amino-propane (DOI)
were investigated in muscle specimens...
Research Fronts: 93-3111 001 (ZEBRA MUSSEL (DREISSENA-POLYMORPHA);
WESTERN LAKE ERIE; SURF CLAM OOCYTES)
93-3360 001 (MALIGNANT HYPERTHERMIA; RYANODINE RECEPTOR GENE; MEAT
QUALITY IN PIGS)

17/3,K/18 (Item 8 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.
04223361 Genuine Article#: RN649 No. References: 27
**Title: CHARACTERIZATION OF 5-HYDROXYTRYPTAMINE RECEPTORS IN GOAT
CEREBRAL-ARTERIES**
Author(s): MIRANDA FJ; TORREGROSA G; SALOM JB; ALABADI JA; JOVER T; BARBERA
MD; ALBORCH E
Corporate Source: UNIV VALENCIA, DEPT FISIOL/VALENCIA//SPAIN//; UNIV
VALENCIA, DEPT FISIOL/VALENCIA//SPAIN//; UNIV VALENCIA, HOSP LA FE, CTR
INVEST/VALENCIA//SPAIN/
Journal: GENERAL PHARMACOLOGY, 1995, V26, N6 (OCT), P1267-1272
ISSN: 0306-3623
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: 50 mM KCl-induced contraction.

2. Several 5-HT receptor agonists were used: (a) the agonist of
5-HT2 receptors alpha-methyl-5-hydroxytryptamine (10^{-7} - 3×10^{-4} M
...

... 10^{-8} - 10^{-5} M) and 5-carboxamidotryptamine (10^{-9} - 10^{-4} M) and the
agonist of 5-HT1A receptors 8-hydroxy-2-(di-n-propylamino)tetralin
(10^{-7} - 3×10^{-5} M) induced weak contractions (8, 18 and 14%,
respectively); and (c) the agonist of 5HT(3) receptors
2-methyl-5-hydroxytryptamine (3×10^{-6} - 10^{-4} M)...
...Identifiers--ARTERY; 5-HT RECEPTORS; MEDIATING CONTRACTION; 5-HT1-LIKE

RECEPTOR; SEROTONIN RECEPTORS; CANINE; RESPONSES; GR43175; **AGONIST**;
SITES

...Research Fronts: AGENTS; SEROTONIN INVOLVEMENT; 8-OH-DPAT IN RATS;
MIDBRAIN DOPAMINE NEURONS)
93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE;
SURF **CLAM** **OOCYTES**)
93-6019 001 (SEROTONIN RECEPTOR SUBTYPES; RAT HIPPOCAMPUS;
AUTORADIOGRAPHIC LOCALIZATION)

17/3,K/19 (Item 9 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

04081428 Genuine Article#: RC957 No. References: 28

Title: **SEROTONIN-INDUCED PARTURITION IN THE FINGERNAIL CLAM SPHAERIUM
(MUSCULIUM) TRANSVERSUM (SAY)**

Author(s): FONG PP; WARNER M

Corporate Source: GETTYSBURG COLL,DEPT BIOL/GETTYSBURG//PA/17325

Journal: JOURNAL OF EXPERIMENTAL ZOOLOGY, 1995, V272, N2 (JUN 1), P163-166
ISSN: 0022-104X

Language: ENGLISH Document Type: NOTE (Abstract Available)

...Abstract: not induced by 8-OH-DPAT (8-hydroxy-dipropylaminotetralin HBr,
a vertebrate 5-HT1A receptor **agonist**), a potent inducer of spawning
in freshwater bivalves. Thus, the pharmacological profile of the 5...

...Identifiers--MUSSEL DREISSENA-POLYMORPHA; FRESH-WATER **MUSSELS** ;
PATINOPECTEN-YESSOENSIS; MEIOSIS REINITIATION; **SCALLOP**; STIMULATION;
RECEPTORS; TISSUES; INVITRO; **OOCYTES**

Research Fronts: 93-3111 003 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA);
WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)

17/3,K/20 (Item 10 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

04064347 Genuine Article#: RB491 No. References: 27

Title: **ROLE OF 5-HT1A AND 5-HT2 RECEPTORS IN THE AVERSION INDUCED BY
ELECTRICAL-STIMULATION OF INFERIOR COLLICULUS**

Author(s): MELO LL; BRANDAO ML

Corporate Source: UNIV SAO PAULO,FAC FILOSOFIA CIENCIAS & LETRAS RIBEIRAO
PRET,PSICOBIO LAB,CAMPUS/BR-14049901 RIBEIRAO PRET//BRAZIL/; UNIV SAO
PAULO,FAC FILOSOFIA CIENCIAS & LETRAS RIBEIRAO PRET,PSICOBIO
LAB/BR-14049901 RIBEIRAO PRET//BRAZIL/

Journal: PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR, 1995, V51, N2-3 (JUN-JUL)
, P317-321

ISSN: 0091-3057

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: responses to the inferior colliculus electrical stimulation.
The 8-OH-DPAT, a classical 5-HT1A **agonist** , and
alpha-methyl-5-hydroxytryptamine, a highly selective 5-HT2 **agonist** ,
injected directly into the inferior colliculus also produced clear
antiaversive effects in a dose-dependent...

Research Fronts: 93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA);
WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)
93-6065 001 (BRAIN 5-HT(2) RECEPTORS; INVITRO PHARMACOLOGICAL PROFILE;
SEROTONIN ANTAGONISTS; SELECTIVE **AGONIST** ; NORADRENERGIC NPY
INTERACTION)

93-6605 001 (SEROTONIN RECEPTOR SUBTYPES; RAT HYPOTHALAMUS; 5-HT
ANTAGONIST; SEROTONERGIC...

17/3,K/21 (Item 11 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

04031744 Genuine Article#: QZ900 No. References: 32

**Title: PROFILES OF THE ANTINOCICEPTIVE EFFECT OF R-84760, A SELECTIVE
KAPPA-OPIOID RECEPTOR AGONIST , IN THE FORMALIN TEST IN MICE**

Author(s): FUJIBAYASHI K; IIZUKA Y

Corporate Source: SANKYO CO LTD,BIOL RES LABS,SHINAGAWA KU,2-58
1CHOME/TOKYO 140//JAPAN/

Journal: JAPANESE JOURNAL OF PHARMACOLOGY, 1995, V68, N1 (MAY), P57-63

ISSN: 0021-5198

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: PROFILES OF THE ANTINOCICEPTIVE EFFECT OF R-84760, A SELECTIVE
KAPPA-OPIOID RECEPTOR AGONIST , IN THE FORMALIN TEST IN MICE**

Abstract: The antinociceptive effect of a selective kappa-opioid receptor
agonist R-84760,
(3R)-3-(1-pyrrolidinylmethyl)-4-[(1S)-5,6-dichloro-1-indancarbonyl]-tet
rahydro-1...

...Research Fronts: OF ARTHRITIC RATS; MIDBRAIN PERIAQUEDUCTAL GRAY;
MORPHINE ANALGESIA; ROSTRAL VENTROMEDIAL MEDULLA)

93-3111 001 (ZEBRA MUSSEL (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE;
SURF CLAM OOCYTES)

93-5053 001 (FORMALIN TEST; NITRIC-OXIDE SYNTHASE INHIBITORS; NMDA
ANTAGONIST MEMANTINE BLOCKS PAIN BEHAVIOR)

17/3,K/22 (Item 12 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

03964121 Genuine Article#: QV245 No. References: 42

**Title: PROLONGED BUT NOT ACUTE FLUOXETINE ADMINISTRATION PRODUCES ITS
INHIBITORY EFFECT ON HIPPOCAMPAL SEIZURES IN RATS**

Author(s): WADA Y; SHIRAISHI J; NAKAMURA M; HASEGAWA H

Corporate Source: KANAZAWA UNIV,SCH MED,DEPT NEUROPSYCHIAT,13-1 TAKARA
MACHI/KANAZAWA/ISHIKAWA 920/JAPAN/; NATL SANAT HOKURIKU HOSP,DIV
NEUROPSYCHIAT/JOHANA 93918//JAPAN/

Journal: PSYCHOPHARMACOLOGY, 1995, V118, N3 (APR), P305-309

ISSN: 0033-3158

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: on HIP seizures was also assessed following longterm treatment
with gepirone, a 5-HT1A receptor agonist . Acute single administration
of fluoxetine (1, 10 mg/kg; IF) was found to produce no...

Research Fronts: 93-3111 001 (ZEBRA MUSSEL (DREISSENA-POLYMORPHA);
WESTERN LAKE ERIE; SURF CLAM OOCYTES)

17/3,K/23 (Item 13 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

03861634 Genuine Article#: QM206 No. References: 29

Title: COMPARISON OF 5-HYDROXYTRYPTAMINE-INDUCED CONTRACTION OF RAT

PULMONARY-ARTERY TO THAT OF AORTA IN-VITRO

Author(s): OGAWA Y; TAKENAKA T; ONODERA S; TOBISE K; TAKEDA A; HIRAYAMA T; MORITA K; KIKUCHI K

Corporate Source: ASAHIKAWA MED COLL, DEPT INTERNAL MED 1, NISHIKAGURA 4-5-3-11/ASAHIKAWA 078/HOKKAIDO/JAPAN/

Journal: JAPANESE CIRCULATION JOURNAL-ENGLISH EDITION, 1995, V59, N2 (FEB), P89-97

ISSN: 0047-1828

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: aorta. In both the pulmonary artery and aorta, 8-OH-DPAT, a 5-HT1A selective **agonist**, produced a concentration-dependent contraction. In the pulmonary artery, 5-HT and 8-OH-DPAT...

...Research Fronts: AGENTS; SEROTONIN INVOLVEMENT; 8-OH-DPAT IN RATS; MIDBRAIN DOPAMINE NEURONS)

93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)

93-6019 001 (SEROTONIN RECEPTOR SUBTYPES; RAT HIPPOCAMPUS; AUTORADIOGRAPHIC LOCALIZATION)

17/3,K/24 (Item 14 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2005 Inst for Sci Info. All rts. reserv.

03854273 Genuine Article#: QL995 No. References: 45

Title: EFFECT OF 5-HT1A RECEPTOR AGONISTS AND ANTAGONISTS ON CANINE CATAPLEXY

Author(s): NISHINO S; SHELTON J; RENAUD A; DEMENT WC; MIGNOT E

Corporate Source: STANFORD UNIV, SCH MED, SLEEP RES CTR/PALO ALTO//CA/94304

Journal: JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, 1995, V272, N3 (MAR), P1170-1175

ISSN: 0022-3565

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: a 5-HT1A antagonist was able to block the anticonvulsant effect of a 5-HT1A **agonist**. These results suggest that the anticonvulsant effects of 5-HT1A agonists are truly mediated by...

...Research Fronts: BINDING-SITES FOR [H-3] SUBSTANCE-P; BRAIN ALPHA-2-ADRENOCEPTORS)

93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)

17/3,K/25 (Item 15 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

(c) 2005 Inst for Sci Info. All rts. reserv.

03831920 Genuine Article#: QJ390 No. References: 25

Title: COMPARISON OF THE SECRETORY ACTIONS OF 5-HYDROXYTRYPTAMINE IN THE PROXIMAL AND DISTAL COLON OF THE RAT

Author(s): AYTON B; HARDCASTLE J; HARDCASTLE PT; CARSTAIRS JWM

Corporate Source: UNIV SHEFFIELD, DEPT BIOMED SCI, WESTERN BANK/SHEFFIELD S10 2TN/S YORKSHIRE/ENGLAND/; UNIV SHEFFIELD, DEPT BIOMED SCI/SHEFFIELD S10 2TN/S YORKSHIRE/ENGLAND/

Journal: JOURNAL OF PHARMACY AND PHARMACOLOGY, 1995, V47, N1 (JAN), P34-41

ISSN: 0022-3573

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: colon).

The effects of 2-methyl-5-hydroxytryptamine (2-Me-5-HT), a relatively selective **agonist** at 5-HT₃ receptors, and 5-methoxytryptamine (5-MT), an **agonist** at all 5-HT receptors except 5-HT₃, were also tested, their specificity of action...
...Research Fronts: ANTAGONISTS; COMBINATION ANTIEMETIC THERAPY; PATIENTS RECEIVING MODERATELY EMETOGENIC CHEMOTHERAPY; SEROTONIN RELEASE)
93-3111 001 (ZEBRA **MUSSEL** (DREISSENA-POLYMORPHA); WESTERN LAKE ERIE; SURF **CLAM** **OOCYTES**)

17/3,K/26 (Item 16 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

02630954 Genuine Article#: LR456 No. References: 30
Title: A NOVEL METHOD TO PRODUCE TRIPLOIDS IN BIVALVE MOLLUSKS BY THE USE OF 6-DIMETHYLAMINOPURINE
Author(s): DESROSIERS RR; GERARD A; PEIGNON JM; NACIRI Y; DUFRESNE L; MORASSE J; LEDU C; PHELIPOT P; GUERRIER P; DUBE F
Corporate Source: UNIV QUEBEC, DEPT OCEANOGRAPHY/RIMOUSKI G5L 3A1/QUEBEC/CANADA/; IFREMER URGE, STN TREMBLADE/LA TREMBLADE//FRANCE/; ECOLE NORMALE SUPER LYON, BIOL CELLULAIRE & MOLEC LAB/LYON//FRANCE/
Journal: JOURNAL OF EXPERIMENTAL MARINE BIOLOGY AND ECOLOGY, 1993, V170, N1, P29-43
ISSN: 0022-0981
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: To date, pressure **shock**, **heat shock**, and chemical treatment with cytochalasin B have been the major methods used to induce triploid ...
...Identifiers--SEA-URCHIN EMBRYOS; CRASSOSTREA-GIGAS; CYTOCHALASIN-B; PROTEIN-PHOSPHORYLATION; **OOCYTE** MATURATION; INTRACELLULAR PH; PACIFIC **OYSTERS**; PATELLA-VULGATA; MYTILUS-EDULIS; MOUSE **OOCYTE**

17/3,K/27 (Item 17 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

02097711 Genuine Article#: KA513 No. References: 23
Title: THAPSIGARGIN INDUCES MEIOTIC MATURATION IN SURF CLAM OOCYTES
Author(s): DUBE F
Corporate Source: UNIV QUEBEC, DEPT OCEANOGRAPHY/RIMOUSKI G5L 3A1/QUEBEC/CANADA/
Journal: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 1992, V189, N1 (NOV 30), P79-84
ISSN: 0006-291X
Language: ENGLISH Document Type: ARTICLE

Title: THAPSIGARGIN INDUCES MEIOTIC MATURATION IN SURF CLAM OOCYTES
Research Fronts: 90-3110 001 (IDENTIFICATION OF FRAGMENTS; CORTICOSTEROIDS INCREASE LIPOCORTIN-I; RAS ADENYLATE-CYCLASE PATHWAY; **HEAT - SHOCK** PROTEIN HSP70 FAMILY)

17/3,K/28 (Item 18 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

01620466 Genuine Article#: HM896 No. References: 22

Title: CENTRIOLE DUPLICATION IN LYSATES OF SPISULA-SOLIDISSIMA OOCYTES
Author(s): PALAZZO RE; VAISBERG E; COLE RW; RIEDER CL
Corporate Source: MARINE BIOL LAB/WOODS HOLE//MA/02543; ACAD SCI USSR, PROT
RES INST/MOSCOW V-71//USSR/; WADSWORTH CTR LABS & RES/ALBANY//NY/12201;
SUNY ALBANY, DEPT BIOMED SCI/ALBANY//NY/12222
Journal: SCIENCE, 1992, V256, N5054 (APR 10), P219-221
Language: ENGLISH **Document Type:** ARTICLE (Abstract Available)

Abstract: A cell-free system has been developed that executes centriole duplication. Surf **clam** (Spisula solidissima) **oocytes**, arrested at late prophase of meiosis I, do not contain centrioles, centrosomes, or asters. Serial...

Research Fronts: 90-3110 001 (IDENTIFICATION OF FRAGMENTS;
CORTICOSTEROIDS INCREASE LIPOCORTIN-I; RAS ADENYLATE-CYCLASE PATHWAY;
HEAT - SHOCK PROTEIN HSP70 FAMILY)

17/3,K/29 (Item 19 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

01473772 Genuine Article#: HB619 No. References: 71

Title: REGULATION OF M-PHASE PROGRESSION IN CHAETOPTERUS OOCYTES BY
PROTEIN-KINASE-C

Author(s): ECKBERG WR; PALAZZO RE

Corporate Source: HOWARD UNIV, DEPT ZOOL/WASHINGTON//DC/20059; MARINE BIOL
LAB/WOODS HOLE//MA/02543

Journal: DEVELOPMENTAL BIOLOGY, 1992, V149, N2 (FEB), P395-405

Language: ENGLISH **Document Type:** ARTICLE

...Identifiers--MATURATION-PROMOTING FACTOR; GERMINAL VESICLE BREAKDOWN;
XENOPUS-LAEVIS **OOCYTES**; CONTROL GENE CDC2+; SURF **CLAM** **OOCYTES**;
CELL-CYCLE; MEIOTIC MATURATION; SPISULA-SOLIDISSIMA; HISTONE-H1 KINASE;
AMPHIBIAN OOCYTES

...Research Fronts: CELLS)

90-3110 001 (IDENTIFICATION OF FRAGMENTS; CORTICOSTEROIDS INCREASE
LIPOCORTIN-I; RAS ADENYLATE-CYCLASE PATHWAY; **HEAT - SHOCK** PROTEIN
HSP70 FAMILY)

90-5893 001 (NUCLEAR LAMINA; INTERMEDIATE FILAMENT; MITOTIC CELLS; IF
PROTEINS; PHOSPHORYLATION...

17/3,K/30 (Item 20 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

01381916 Genuine Article#: GU724 No. References: 67

Title: MONOAMINERGIC AND CHOLINERGIC MECHANISMS OF REPRODUCTION CONTROL IN
MARINE BIVALVE MOLLUSKS AND ECHINODERMS - A REVIEW

Author(s): KHOTIMCHENKO YS; DERIDOVICH II

Corporate Source: ACAD SCI USSR, INST MARINE BIOL, REGULAT REPROD LAB, FAR E
BRANCH/VLADIVOSTOK 690032//USSR/

Journal: COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-COMPARATIVE PHARMACOLOGY
AND TOXICOLOGY, 1991, V100, N3, P311-317

Language: ENGLISH **Document Type:** REVIEW (Abstract Available)

...Identifiers--CENTRAL NERVOUS-SYSTEM; URCHIN

STRONGYLOCENTROTUS-INTERMEDIUS; MYTILUS-EDULIS **BIVALVIA**; SURF **CLAM**
OOCYTES; SEA-URCHIN; PATINOPECTEN-YESSOENSIS; ASTERIAS-RUBENS;
SPECTROFLUOROMETRIC DETERMINATION; PYLORIC CECA; CYCLIC-AMP

Research Fronts: 89-4545 001 (XENOPUS OOCYTES; DEVELOPMENTAL EXPRESSION OF THE **HEAT - SHOCK** RESPONSE; SPECIFIC GABA BENZODIAZEPINE RECEPTOR MESSENGER-RNA)

17/3,K/31 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2004 The HW Wilson Co. All rts. reserv.

04045909 H.W. WILSON RECORD NUMBER: BGS199045909 (USE FORMAT 7 FOR FULLTEXT)

The anaphase-promoting complex: new subunits and regulators.

Page, A. M

Hieter, P

Annual Review of Biochemistry v. 68 (1999) p. 583-609

SPECIAL FEATURES: bibl il ISSN: 0066-4154

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

WORD COUNT: 10658

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... Biochemists attempting to reconstitute the ubiquitination of cyclin B with extracts made from Xenopus and **clam oocytes** fractionated the enzymatic components into an E1 fraction, several different E2 fractions, and an E3...complex assembly or maintenance of complex stability, especially under conditions of cellular stress such as **heat shock**.

APC9

Apc9p was identified in the biochemical purification of the yeast cyclosome. Although not essential...level of ubiquitination of B-type cyclins in mitotic/meiotic extracts prepared from Xenopus or **clam oocytes** to that of interphase extracts prepared from the same cell types. As additional APC substrates...

...affect its activity against a certain subset of substrates, for example mitotic cyclins.

Experiments with **clam oocytes** demonstrated that inactive cyclosome fractions prepared from interphase extracts could be activated by the addition...

17/3,K/32 (Item 2 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
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03546756 H.W. WILSON RECORD NUMBER: BGS197046756 (USE FORMAT 7 FOR FULLTEXT)

Dynamic O-linked glycosylation of nuclear and cytoskeletal proteins.

Hart, Gerald W

Annual Review of Biochemistry (Annu Rev Biochem) v. 66 ('97) p. 315-35

SPECIAL FEATURES: bibl il ISSN: 0066-4154

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

WORD COUNT: 9083

(USE FORMAT 7 FOR FULLTEXT)

...ABSTRACT: Known O-GlcNAcylated proteins include cytoskeletal proteins and their regulatory proteins; viral proteins; nuclear-pore, **heat - shock**, tumor-suppressor, and nuclear-oncogene proteins; RNA polymerase II catalytic subunit; and a multitude of...

TEXT:

... Several years earlier it was shown that either an antibody to a p67 polypeptide from **clam oocytes** or WGA could block energy-dependent transport of RNA out of the nucleus (40). Using...118). Other steroid receptors may also be O-GlcNAcylated, as has been reported for the **estrogen** receptor (109).

O-GLCNAC--MODIFIED CYTOSKELETAL AND MEMBRANE PROTEINS

The first O-GlcNAcylated cytoskeletal protein...the lens of eye. In other cell types, such as heart, they are induced by **heat shock** and act as chaperones, which modulate intermediate filament assembly (149-151).

Talin, which serves to...

17/3,K/33 (Item 1 from file: 434)

DIALOG(R)File 434:SciSearch(R) Cited Ref Sci
(c) 1998 Inst for Sci Info. All rts. reserv.

05831986 Genuine Article#: SV049 No. References: 33

Title: **THE MAJOR 67 000-MOLECULAR WEIGHT PROTEIN OF THE CLAM OOCYTE NUCLEAR-ENVELOPE IS LAMIN-LIKE**

Author(s): MAUL GG; BAGLIA FA; NEWMAYER DD; OHLSSONWILHELM BM

Corporate Source: WISTAR INST ANAT & BIOL/PHILADELPHIA//PA/19104; UNIV ROCHESTER,MED CTR,DEPT RADIAT BIOL & BIOPHYS/ROCHESTER//NY/14642; UNIV ROCHESTER,MED CTR,DEPT MICROBIOL/ROCHESTER//NY/14642

Journal: JOURNAL OF CELL SCIENCE, 1984, V67, APR, P69-85

Language: ENGLISH Document Type: ARTICLE

Title: **THE MAJOR 67 000-MOLECULAR WEIGHT PROTEIN OF THE CLAM OOCYTE NUCLEAR-ENVELOPE IS LAMIN-LIKE**

Research Fronts: 84-0358 001 (BINDING OF ANDROGEN, **ESTROGEN** AND OTHER HORMONES TO NUCLEAR MATRIX OF PROSTATIC-CANCER AND OTHER CELLS)
84-1437 001...

? t 17/7/all

>>>Format 7 is not valid in file 143

17/7/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0011120323 BIOSIS NO.: 199799754383

Characterization of serotonin receptor mediating intracellular calcium increase in meiosis-reinitiated oocytes of the bivalve Ruditapes philippinarum from central Japan

AUTHOR: Fong Peter P (Reprint); Deguchi Ryusaku; Kyojuka Keiichiro

AUTHOR ADDRESS: Dep. Biol., Gettysburg Coll., Gettysburg, PA 17325, USA**
USA

JOURNAL: Journal of Experimental Zoology 279 (1): p89-101 1997 1997

ISSN: 0022-104X

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ABSTRACT: The serotonin (5-HT) receptor subtypes mediating germinal vesicle breakdown (GVBD) and the release of intracellular calcium, (Ca-2+)-i, in

the bivalve *Ruditapes philippinarum* were investigated by examining the efficacy of serotonergic ligands at inducing or inhibiting GVBD and (Ca-2+)-i release. 5-HT, alpha-methyl-5-HT (a 5-HT-2 receptor **agonist**), and 8-OH-DPAT (5-HT1A) were the most potent agonists inducing a high percentage of oocytes to undergo GVBD. These three agents also significantly induced spawning in male **clams** . Stimulation of fura-2 injected **oocytes** by these compounds resulted in a large calcium transient peak seconds after **agonist** application, followed by one to several smaller transients. Maximum peak height, mean peak height, and time to initial peak were dose dependent for the tested agonists. This is in contrast to earlier published reports of (Ca-2+)-i release in this species. The rank order of potency for agonists was 5-HT gt alpha-methyl-5-HT gt 8-OH-DPAT gt TFMPP (5-HT-1) gt 1-m-chlorophenylbiguanide (5-HT-3). For antagonist effects on GVBD and release of (Ca-2+)-i, the 5-HT-2 receptor ligand cyproheptadine was the most effective blocker. Metoclopramide (5-HT-3) and mianserin (5-HT-2) also significantly inhibited the above processes. Propranolol (5-HT-1) was marginally effective. The rank order of potency for antagonists was cyproheptadine gt metoclopramide = mianserin gt propranolol. Although the pharmacology of GVBD has been previously reported in *R. philippinarum*, different ligands were tested. Thus, we conclude that the 5-HT receptor mediating GVBD and intracellular (Ca-2+)-i release is sensitive mainly to 5-HT-2 receptor ligands and presents a pharmacological profile unlike any yet described.

17/7/2 (Item 2 from file: 5)

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Change in intracellular Ca-2+ is not involved in serotonin-induced meiosis reinitiation from the first prophase in oocytes of the marine bivalve *Crassostrea gigas*

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ABSTRACT: In response to the neurohormone serotonin (5-hydroxytryptamine, 5-HT), prophase-arrested **oocytes** of the marine **bivalve** *Crassostrea gigas* (**oyster**) reinitiate meiosis, undergo germinal vesicle breakdown (GVBD), and are arrested again at metaphase I. We examined the pharmacological characteristics of 5-HT receptors and the signal transduction pathway following 5-HT stimulation in **oyster oocytes** . Among 5-HT agonists tested, only alpha-methyl 5-HT, a 5-HT-2 **agonist** , induced GVBD, although it was 1000 times less sensitive than 5-HT. The rank order of the potency of 5-HT antagonists to inhibit GVBD was propranolol, cyproheptadine gt metoclopramide gt mianserin. These results are quite different from those reported for other mollusks, suggesting the presence of unique 5-HT receptors on **oyster oocytes** . Using the fluorescent Ca-2+ dyes fura2 and calcium green and the pH indicator 1-hydroxypyrene-3,6,8-trisulfonic acid, we examined changes in intracellular Ca-2+ ((Ca-2+)-i) and intracellular pH (pH-i) during 5-HT-induced meiosis reinitiation. 5-HT did not trigger any changes in

(Ca-2+)-i. However, an increase in pH-i was observed during the 5-HT-induced meiosis reinitiation. The increased pH-i level was rather small before GVBD and not necessary for GVBD, because lowering pH-i by sodium acetate seawater (pH 7.0) did not prevent 5-HT-induced GVBD. Measurement of the kinase activity toward a peptide substrate specific to cdc2 demonstrated that maturation-promoting factor (MPF) was activated in accordance with the occurrence of GVBD in response to 5-HT. Therefore, it is likely that in **oyster oocytes** the signal transduction pathways and intracellular effectors participating in 5-HT-induced meiosis reinitiation via the activation of MPF are insensitive to (Ca-2+)-i and pH-i.

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Serotonergic mechanisms mediating spawning and oocyte maturation in the zebra mussel, Dreissena polymorpha

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ABSTRACT: The zebra mussel, *Dreissena polymorpha*, is a freshwater biofouling **bivalve** unintentionally introduced in the 1980s into North America from Europe. **Oocyte** maturation (germinal vesicle breakdown, GVBD) and spawning of the zebra **mussel** can be triggered with serotonin (5-hydroxytryptamine, 5-HT). In pharmacological experiments to characterize the receptor mediating spawning, the serotonin receptor agonists 8-OH-DPAT, 5-HT_{1D}, and 1-(1-naphthyl)piperazine were effective at stimulating spawning; whereas, 2-methylserotonin and alpha-methylserotonin had no effect. In experiments with antagonists of serotonin receptors ketanserin and propranolol had no effect; mianserin, NAN-190, and cyproheptadine had partial inhibitory effects; and methiothepin was a very effective antagonist. Metergoline had mixed **agonist** /antagonist properties. Ergotamine was the most effective activator of spawning in females. Compared to serotonergic receptors in other organisms, the receptors that activate spawning in zebra mussels resemble 5HT_{1D}, 5HT_{2D} and human 5HT_{1D}-beta, which are receptors that may act both by inhibiting adenylyl cyclase and by activating phospholipase C. In zebra mussels, 5-HT and 8-OH-DPAT activate GVBD in gonad fragments, a process also initiated by manual dissection of gonad fragments. GVBD can be inhibited by pre-treatment of ovaries with forskolin and theophylline, suggesting an inhibitory role for cyclic AMP. The Ca-2+ ionophore A23187 can trigger GVBD and polar body formation. Thus, **oocyte** maturation in zebra **mussels** may be initiated via serotonergic receptors simultaneously inhibiting adenylyl cyclase and activating Ca-2+ mechanisms.